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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Cruz-Hernandez, et al.  
Ser. No. : 10/686,323  
Filing Date : 10/15/2003  
For : Products and Processes for Providing Force  
Sensations In a User Interface  
Examiner : Not Yet Assigned  
Art Unit : 2123  
Atty. Docket : IMM150

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicant has submitted references listed on the enclosed Supplemental Information Disclosure Statement in electronic form on the enclosed compact disc. Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form-PTO SB/08a. If the Examiner desires hard copies of some or all of these references, Applicant will provide these expeditiously upon Examiner's request.

This Information Disclosure Statement ("IDS") is being submitted prior to the mailing of a first Office Action on the merits in this application. Accordingly, it is believed that no fees are due for consideration of this IDS. However, should any fees be due, the Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §1.16 or §1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

It is respectfully requested that the references listed on the attached form be expressly considered by the Examiner and be made of record in the application and appear among "References Cited" on any patent to issue therefrom.

Respectfully submitted,

Date: April 20, 2004

By: Goran P. Stojkovich  
Goran P. Stojkovich  
Reg. No. 45,841

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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 9

**Complete if Known**

Application Number	10/686,323
Filing Date	10/15/2003
First Named Inventor	Cruz-Hernandez, et al.
Art Unit	2123
Examiner Name	Not yet assigned
Attorney Docket Number	IMM150

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	2,972,140	2/14/1961	Hirsch	
	2	3,157,853	11/17/1964	Hirsch	
	3	3,220,121	11/30/1965	Cutler	
	4	3,497,668	2/24/1970	Hirsch	
	5	3,517,446	6/30/1970	Corlyon et al.	
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	11	4,160,508	7/10/1979	Salsbury	
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/686,323
		Filing Date	10/15/2003
		First Named Inventor	Cruz-Hernandez, et al.
		Art Unit	2123
		Examiner Name	Not yet assigned
Sheet 2 of 9	Attorney Docket Number	IMM150	

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34	5,038,089	8/6/1991	Szakaly		
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36	5,121,091	6/9/1992	Fujiyama		
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Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 9

### Complete if Known

Application Number	10/686,323
Filing Date	10/15/2003
First Named Inventor	Crúz-Hernandez, et al.
Art Unit	2123
Examiner Name	Not yet assigned
Attorney Docket Number	IMM150

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69	6,118,435	9/12/2000	Fujita et al.
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/686,323
				Filing Date	10/15/2003
				First Named Inventor	Cruz-Hernandez, et al.
				Art Unit	2123
				Examiner Name	Not yet assigned
(Use as many sheets as necessary)				Attorney Docket Number	IMM150
Sheet	4	of	9		

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	102	20010035854A1	11/1/2001	Rosenberg, et al.	
	103	20020033795A1	3/21/2002	Shaholian, et al.	
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	107	20030016211A1	1/23/2003	Woolley	
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	113	20030058265A1	3/27/2003	Robinson, et al.	
	114	20030067449A1	4/10/2003	Yoshikawa, et al.	
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	119	20030151597A1	8/14/2003	Roberts, et al.	
	120	20030174121A1	9/18/2003	Poupyrev et al.	
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	122	2002/0149561 A1	10/17/2002	Fukumoto et al.	

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	123	EP	0349086	1/3/1990	Stork Kwant B.V.		
	124	JP	01-003664	7/19/1990	Taito Corporation		
	125	JP	02-109714	1/13/1992	Epoch Co. and Key-Planning Co.		

Examiner Signature		Date Considered	
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Sheet 5 of 9

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
	126	JP 04-007371		8/3/1993	Taito Corporation		
	127	JP 05-193862		1/27/1995	Sega Corporation		
	128	WO 97/18546 A1		5/22/1997	Gerpheide		
	129	EP 0556999 B1		5/27/1998	NCR International, Inc.		
	130	JP 2001-350592A		12/21/2001	Ryo et al.		
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**OTHER DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	136	ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.
	137	ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992.
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	139	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.

Examiner Signature		Date Considered	
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Art Unit	2123
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Attorney Docket Number	IMM150

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**OTHER DOCUMENTS**

140	BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.
141	BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.
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Sheet 7 of 9

### Complete if Known

Application Number	10/686,323
Filing Date	10/15/2003
First Named Inventor	Cruz-Hernandez, et al.
Art Unit	2123
Examiner Name	Not yet assigned
Attorney Docket Number	IMM150

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